

REMARKS

1. Claim Status

Claims 28-45 remain pending with claims 28, 36, and 44 being independent.

Claims 28-32, 34-36, and 39-45 have been amended based on the specification as filed. No new matter is added.

2. Claim Amendments

Applicant has amended claim 28 to recite a processor that includes circuitry to map resources within multiple programmable units into a single address space where there is a one-to-one correspondence between respective addresses in the single address space and respective resources within the multiple programmable units. The circuitry provides data access to a resource within a first of the multiple programmable units to a second one of the multiple programmable units in response to a data access request of the second processor specifying an address within the single address space. For example, as described in the specification, a first programmable unit (e.g., processor core 50) can access internal register locations within other programmable units (e.g., engines 22a-22f) by specifying an address in the address space shown in FIG. 4.

The Office Action rejected claim 28 based on Tremblay (U.S. Pat. No. 6,212,604). Tremblay describes two processors, P1 and P2. However, Tremblay does not describe that either processor can access the other processor's internal resources by specifying an address in a single address space. That is, for example, Tremblay does not describe that P1 can access the internal registers of P2 via a data request specifying an address in an address space that spans the internal registers of P1 and P2, or vice versa. Therefore, Claim 28 is distinctly different from Tremblay and is patentable. As such, Applicant respectfully requests withdrawal of the rejection of claim 28, and for at least the same reason, its corresponding dependent claims.

Applicant : Wolrich, et al.
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Intel Docket No.: P7866C

Independent claims 36 and 45 have been amended to include recitation of a similar limitation. Thus, for at least the same reason, Applicant also respectfully requests withdrawal of the rejection of independent claims 36 and 45 and their corresponding dependent claims.

If any fees are due, please apply such fees to Deposit Account No. 06-1050 referencing attorney docket number: 10559-127002.

Respectfully submitted,

Date: June 7, 2007

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